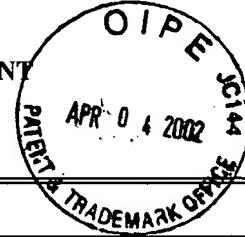


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## REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

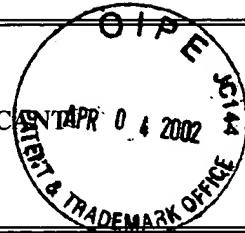
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
	AA	2,822,158	02/04/58	Brinton*	262	3	
	AB	3,129,776	04/21/64	Mann	175	76	
	AC	3,354,969	11/28/67	Ebeling	175	81	
	AD	3,376,942	04/09/68	Van Winkle	175	81	
	AE	Re28,449	06/10/75	Edmond	175	94	
	AF	3,797,589	03/19/74	Kellner et al	175	94	
	AG	3,978,930	09/07/76	Schroeder	175	94	
	AH	4,060,141	11/29/77	Catterfeld	175	94	
	AI	4,185,704	01/29/80	Nixon, Jr.	175	76	
	AJ	4,388,974	06/21/83	Jones, Jr. et al	75	325	
	AK	4,463,814	08/07/84	Horstmeyer et al.	175	454	
	AL	4,560,934	12/24/85	Dickinson, III *	324	323	
	AM	4,568,145	02/04/86	Colin et al.	350	96.20	
	AN	4,619,323	10/28/86	Gidley*	166	285	
	AO	4,698,028	10/06/87	Caro et al.	439	271	
	AP	4,699,454	10/13/87	Brubaker	350	96.2	
	AQ	4,844,516	07/04/89	Baker	285	351	
	AR	5,018,583	05/28/91	Williams	166	385	
	AS	5,064,268	11/12/91	Morency et al.	385	87	
	AT	5,069,297	12/03/91	Krueger, deceased et al.	175	65	
	AU	5,080,175	01/14/92	Williams	166	385	
	AV	5,094,870	03/24/92	Williams	138	115	
	AW	5,109,921	05/05/92	Aracena	166	65	
	AX	5,146,982	09/15/92	Dinkins	366	65.1	
	AY	5,146,984	09/15/92	Pleasants	166	238	
	AZ	5,160,925	11/03/92	Dailey et al.	340	853.3	
	BA	5,172,765	12/22/92	Sas-Jaworsky et al.	166	384	
	BB	5,176,180	01/05/93	Williams et al.	138	172	
	BC	5,215,151	06/01/93	Smith et al.	175	45	
	BD	5,233,522	08/03/93	Sinclair	364	422	

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## REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
ZL	BE	5,234,058 ✓	08/10/93	Sas-Jaworsky et al.	166	385	
	BF	5,235,285 ✓	08/10/93	Clark et al.	324	342	
	BG	5,260,662 ✓	11/09/93	Rorden	324	339	06/15/92
	BH	5,285,008 ✓	02/08/94	Sas-Jaworsky et al.	174	47	
	BI	5,285,204 ✓	02/08/94	Sas-Jaworsky	340	854.9	07/23/92
	BJ	5,311,952 ✓	05/17/94	Eddison et al.	175	61	05/22/92
	BK	5,314,032 ✓	05/24/94	Pringle et al.	175	74	05/17/93
	BL	5,318,138 ✓	06/07/94	Dewey et al.	175	74	10/23/92
	BM	5,330,807 ✓	07/19/94	Williams	428	34.5	03/15/90
	BN	5,332,049 ✓	07/26/94	Tew	175	320	09/28/91
	BO	5,332,048 ✓	07/26/94	Underwood et al.	175	26	10/23/92
	BP	5,339,036 ✓	08/16/94	Clark et al.	324	338	05/21/93
	BQ	5,348,096 ✓	09/20/94	Williams	166	384	04/29/93
	BR	5,394,951 ✓	03/07/95	Pringle et al.	175	61	12/13/93
	BS	5,423,389 ✓	06/13/95	Warren et al.	175	75	03/25/94
	BT	5,437,899 ✓	08/01/95	Quigley	428	35.7	07/14/92
	BU	5,442,294 ✓	08/15/95	Rorden	324	339	04/16/93
	BV	5,469,916 ✓	11/28/95	Sas-Jaworsky et al.	166	64	03/17/94
	BW	5,497,707 ✓	03/12/96	Box	104	138.2	06/30/94
	BX	5,527,220 ✓	06/18/96	Geczy	464	153	03/24/94
	BY	5,540,870 ✓	07/30/96	Quigley	264	103	04/07/95
	BZ	5,586,084 ✓	12/17/96	Barron et al.	367	85	12/20/94
	CA	5,601,025 ✓	02/11/97	Box	104	138.2	04/17/95
	CB	5,620,056 ✓	04/15/97	Eppink	175	95	06/07/95
	CC	5,662,020 ✓	09/02/97	Morita et al.	91	44	07/30/96
	CD	5,713,422 ✓	02/03/98	Dhindsa	175	27	02/28/94
ZL	CE	5,842,149 ✓	11/24/98	Harrell et al.	702	9	10/22/96

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## FOREIGN PATENT DOCUMENTS



		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	Translation	
							YES	NO
✓	CF	✓ GB2 295 875A	12.06.96	UK *	F16L	11/02	X	
	CG	✓ WO 96/09416	28.03.96	PCT *	E21B	47/01	X	
	CH	✓ WO 97/12115	03.04.97	PCT *	E21B	17/04	X	
	CI	✓ 9708418	06.03.97	WIPO			X	
	CJ	✓ WO 97/12166	03.04.97	PCT *	F16L	11/08	X	
✓	CK	✓ WO 99/19653	22.04.99	PCT *	F16L	11/12	X	

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

✓	CL	✓ SPE Petroleum Conference (SPE 028871); <i>Well Tractors for Highly Deviated and Horizontal Wells</i> ; J. Hallundbaek; Oct. 25-27, 1994; (pp. 57-62)
	CM	✓ 68 <sup>th</sup> Annual Technical Conference of SPE (SPE 26536); <i>Development of Composite Coiled Tubing for Oilfield Services</i> ; A. Sas-Jaworsky, J.G. Williams; Oct. 3-6 1993 (pp. 1-15)
	CN	✓ SPE/ADC Drilling Conference (SPE 37656); <i>Extending the Reach of Coiled Tubing Drilling (Thrusters, Equalizers, and Tractors)</i> ; J. Leising, E.C. Onyia, S.C. Townsend, et al March 4-6 1997; (pp. 1-14)
	CO	✓ Introduction to Petroleum Production Volume 1 (ISBN 0-87201-767-2); <i>Reservoir Engineering, Drilling, Well Completions</i> ; D. R. Skinner; Gulf Publishing Company; (pp 1-69); Undated
	CP	✓ International MWD Society; <i>State of the Art in MWD</i> ; (pp. 28) 01/19/93
	CQ	✓ Oilfield Review; <i>Measurements at the Bit: A New Generation of MWD Tools</i> ; S. Bonner, T. Burgess, et al; (pp. 44-54) Undated
	CR	✓ Schlumberger/Anadrill; Anadrill Directional Drilling; <i>People, Tools and Technology Put More Within Your Reach</i> ; (1991) (pp. 6)
	CS	✓ SADC/SPE Drilling Conference (IADC/SPE 14764); <i>Predicting Bottomhole Assembly Performance</i> ; J. Williamson, A. Lubinski; Feb. 10-12, 1986; (pp. 337-342)
	CT	✓ Baker Hughes INTEQ; Technical Data Sheet; <i>NaviGator™ (6-3/4")</i> ; (1994);(pp. 2)
	CU	✓ Schlumberger/Anadrill; <i>An Underground revolution, Integrated Drilling Evaluation and Logging</i> ; (1995); (pp. 12)
	CV	✓ Schlumberger/Anadrill; <i>IDEAL Wellsite Information System</i> ; (pp. 14)
	CW	✓ Baker Hughes INTEQ; Technical Services Evaluation Product Line; <i>The Navigator Sales Orientation Manual</i> ; F. Hearn, et al; (pp. 1-16);
✓	CX	✓ Baker Hughes INTEQ; <i>NaviGator™ Reservoir Navigation Service</i> ; (1996); (pp. 4);

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**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

✓	CY	R. L. Gilstrap Co.; <i>The Wellhead CASINJAC™ for extra pipe pulling power</i> ; (pp. 7); Undated
	CZ	The Natural Selection Research Group; <i>Inchworm Mobility—Stable, Reliable and Inexpensive</i> ; A. Ferworn, D. Stacey; (pp. 1-4); Undated
	DA	CSIRO-UTS Electrical Machines; <i>Oil Well Tractor</i> ; (pp. 1); undated
	DB	Scandinavian Oil-Gas Magazine; <i>Well Tractor for use in Deviated and Horizontal Wells</i> ; F. Schüssler; (pp. 1-3); Undated
	DC	Shell U.K. Exploration and Production; <i>The Challenge of Drilling in the New Millennium</i> ; NeuRobot; (2 p.); (at least as early as 1996);
	DD	D. Biglin, M. Wassell; APS Technology Self Propelled Drill String; <i>A Self Propelled Drilling System for Hard-Rock, Horizontal and Coiled Tube Drilling</i> ; (6 pages) May 5, 1998;
✓	DE	European Patent Office Search Report for Appln. No. 98308760.2 dated January 21, 2002; (7 p.) *

EXAMINER

J. Lee

DATE CONSIDERED

4/18/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

\* Not Previously Cited